



## TECHNICAL DATA SHEET

**Product Name:** L-5-Methyltetrahydrofolate Calcium

**Synonyms:** L-5-MTHF Ca; Calcium L-5-Methyltetrahydrofolate

**CAS No.:** 151533-22-1

### 1. Product Description

L-5-Methyltetrahydrofolate Calcium (L-5-MTHF Ca) is the biologically active form of folate (Vitamin B9). It appears as a white to off-white crystalline powder and offers superior bioavailability compared to folic acid. It is widely used in nutraceuticals, functional foods, and dietary supplements.

### 2. Specifications, Heavy Metals & Microbiological Data

Category	Item	Specification
<b>Physical &amp; Chemical</b>	Appearance	White to off-white crystalline powder
	Identification	Positive
	Assay (HPLC)	≥ 98.0%
	Calcium Content	7.0% – 8.5%
	Loss on Drying	≤ 1.0%
	Residue on Ignition	≤ 0.5%
<b>Heavy Metals</b>	Total Heavy Metals	≤ 10 ppm
	Arsenic (As)	≤ 1.0 ppm
	Lead (Pb)	≤ 2.0 ppm
	Mercury (Hg)	≤ 0.1 ppm
	Cadmium (Cd)	≤ 1.0 ppm
<b>Microbiological</b>	Total Plate Count	≤ 1000 CFU/g
	Yeast & Mold	≤ 100 CFU/g
	Escherichia coli	Absent
	Salmonella	Absent

### 3. Applications

Used in nutritional supplements, prenatal formulations, functional foods, and fortified beverages.

---

#### **4. Packaging**

Packed in aluminum foil bags or fiber drums with double inner PE bags.

---

#### **5. Storage**

Store in a cool, dry place, protected from light and moisture. Keep container tightly closed.

---

#### **6. Shelf Life**

24 months under recommended storage conditions.

---

#### **7. Safety Information**

Please refer to the MSDS for detailed safety, handling, and transportation information.